

ABSTRACT OF THE DISCLOSURE

5 An improved method of nuclear transfer involving the  
transplantation of donor cell nuclei into enucleated  
oocytes of a species different from the donor cell is  
provided. The resultant nuclear transfer units are useful  
for the production of isogenic embryonic stem cells, in  
particular human isogenic embryonic or stem cells. These  
embryonic or stem-like cells are useful for producing  
desired differentiated cells and for introduction, removal  
10 or modification, of desired genes, e.g., at specific sites  
of the genome of such cells by homologous recombination.  
These cells, which may contain a heterologous gene, are  
especially useful in cell transplantation therapies and  
for *in vitro* study of cell differentiation.

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